

Title (en)

Transmitting/receiving apparatus and method for cell search in a broadband wireless communication system using multiple carriers

Title (de)

Sende-/Empfangseinrichtung und Verfahren zur Zellsuche in einem breitbandigen drahtlosen Kommunikationssystem mit mehreren Trägern

Title (fr)

Dispositif d'émission/réception et procédé pour la recherche de cellule dans un système sans fil de communication large bande utilisant des porteuses multiples

Publication

EP 1755299 A3 20080618 (EN)

Application

EP 06015517 A 20060725

Priority

KR 20050076058 A 20050819

Abstract (en)

[origin: EP1755299A2] Disclosed is transmitting/receiving system and method for efficient cell search in a broadband wireless communication system using multiple carriers. The system includes a Base station (BS) generating an SCH signal by mapping predetermined symbols to predetermined subcarriers according to a code group to which the BS belongs, code-multiplexing a TCH signal and a pilot channel signal mapped to a predetermined time-frequency area and scrambling the code-multiplexed signal with a predetermined scrambling code identifying the BS along a time axis, time-multiplexing the SCH signal with the scrambled signal, OFDM-modulating the time-multiplexed signal, and transmitting the OFDM-modulated signal.

IPC 8 full level

H04B 1/707 (2006.01); **H04L 5/02** (2006.01); **H04L 27/26** (2006.01)

CPC (source: EP KR US)

H04B 1/70735 (2013.01 - EP US); **H04J 11/0069** (2013.01 - EP US); **H04L 5/0017** (2013.01 - EP US); **H04L 5/0048** (2013.01 - EP US); **H04L 25/03866** (2013.01 - EP US); **H04L 27/26** (2013.01 - KR); **H04L 27/2613** (2013.01 - EP KR US); **H04L 27/2657** (2013.01 - EP US)

Citation (search report)

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- [X] US 2004085946 A1 20040506 - MORITA MINORI [JP], et al
- [X] Tanno M et al: "Three-step fast cell search algorithm utilizing common pilot channel for OFCDM broadband packet wireless access", VTC 2002-FALL. 2002 IEEE 56TH. VEHICULAR TECHNOLOGY CONFERENCE PROCEEDINGS. VANCOUVER, CANADA, SEPT. 24 - 28, 2002; [IEEE VEHICULAR TECHNOLOGY CONFERENCE], NEW YORK, NY : IEEE, US, vol. 3, 24 September 2002 (2002-09-24), pages 1575 - 1579, XP010608694, ISBN: 978-0-7803-7467-6
- [X] HANADA, Y., HIGUCHI, K., SAWAHASHI, M.: "Three-step cell search algorithm for broadband multi-carrier CDMA packet wireless access", PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 2001 12TH IEEE INTERNATIONAL SYMPOSIUM ON, vol. 2, 30 September 2001 (2001-09-30) - 3 October 2001 (2001-10-03), San Diego, CA, USA, pages G-32 - G-37, XP002478592

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1755299 A2 20070221; **EP 1755299 A3 20080618**; KR 20070021609 A 20070223; US 2007041348 A1 20070222

DOCDB simple family (application)

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